

"SQ" NOTES

BY R.A.HILSMANN

This month I have a new program for you, something which I had been working on in the past, but put aside after seeing a program called "DOSDEX" published in January's TS-206B UP-DATE. It looked like someone had done the job already. After taking a closer look at DOSDEX the other week, I found that DOSDEX was not what I had in mind, so here is the "DISK LIBRARY"

DISK LIBRARY will not just list programs for LOAD, it will do a lot more, as you will notice. It's MENU driven, and should be easy to use. I hope when I reentered it, making changes as I went along, I did not enter to many bugs. I have checked it as much as I could in the short time I had to get it ready for SMUG BYTES. So watch the next issues of this News-Letter for updates.

Below is a screen copy of the menu, which should give you a good idea of what this program will do, especially #9, which should help me clean up my Disk Garbage that has accumulated over the years.

Sorry about the sorting, it's in basic, maybe I will write a sorting routine in MC. Again, watch this column for further updates.

```
DISK LIBRARY FILE: LIBR #1
*****
1) FIND & LOAD A PROGR. IN LIBR.
2) LIST & LOAD PROGR. IN LIBRARY
3) ENTER A DISK TO THE LIBRARY
4) DELETE A DISK IN THE LIBRARY
5) UPDATE A DISK IN THE LIBRARY
6) SORT LIBRARY FILES (ALPHA)
7) LOAD OR SAVE LIBRARY DATA
8) LIST LIBRARY FILES TO PRINTER
9) CREATE NEW DISK FROM FILES
```

```
CAPACITY 800 >0 FILES ENTERED
>>>>>>>>> ENTER 1 TO 9 <<<<<<<<<<
```

```
10 REM 1 TYPE THIS LINE
2 FOR MACHINE CODE
TO HERE>3
15 REM
```

```
*****
* DISK LIBRARY PROGRAM *
* BY R.A.HILSMANN *
* ©1988 IMPEX SOFTWARE *
* FOR PUBLIC DOMAIN *
*****
```

```
20 CLEAR : LET A=NOT PI: DIM A
$(179,20): DIM L$(10): DIM B$(32)
): DIM C$(608): DIM K$(6,5): LET
K$(1)="BASIC": LET K$(2)="DATA#
": LET K$(3)="DATA$": LET K$(4)=
"CODE ": LET K$(5)="STATE": LET
K$(6)="VARIABLES": INK 9: PAPER 1: B
ORDER 1: LET E=PEEK 23635+255*PE
EK 23636+5
```

```
30 CLS : GO SUB VAL "70": LET
F=0: PRINT AT 8,0;"PRESS ONE (1)
FOR NEW LIBR. FILE""ZERO (0)
TO LOAD EXISTING FILE ": PAUSE
NOT PI: IF INKEY$="1" THEN GO TO
VAL "40"
```

```
35 INPUT "ENTER NAME OF LIBRAR
Y FILE""D$: LOAD /D$ DATA E$():
GO TO 50
```

```
40 DIM E$(801,32): LET E$(801,
TO 3)=STR$ 1: INPUT "ENTER NAME
OF NEW LIBRARY FILE""D$: LET E
$(801,4 TO 13)=D$
```

```
50 CLS : GO SUB VAL "80": GO S
UB VAL "70": PRINT AT 0,6-INT (L
EN D$/2);"DISK LIBRARY FILE: "E
$(801,4 TO 13)"*****
*****""1) FIND & LOA
D A PROGR. IN LIBR.""2) LIST &
LOAD PROGR. IN LIBRARY""3) EN
TER A DISK TO THE LIBRARY""4)
DELETE A DISK IN THE LIBRARY""
5) UPDATE A DISK IN THE LIBRARY""
6) SORT LIBRARY FILES (ALPHA)
""7) LOAD OR SAVE LIBRARY DATA
""8) LIST LIBRARY FILES TO PR
INTER"
```

```
60 PRINT ""9) CREATE NEW DISK
FROM FILES""
```

```
*****CAPACITY 800 >
";Y;TAB 18;" FILES ENTERED": PRI
NT #0;">>>>>>>>> PRESS 1 TO 9 <<
<<<<<<<": PAUSE 0: GO TO (CODE I
NKEY$-48)*1E3
```

```
70 BEEP .08,35: RETURN
80 LET Y=VAL E$(801, TO 3)-1:
RETURN
```

```
100 PRINT " ENTER ZERO (0) TO E
XIT TO MENU
```

```
": RETURN
1000 GO SUB 80: CLS : GO SUB 100
: GO SUB 70: INPUT "ENTER NAME O
F PROGRAM ""F$: IF F$="0" THEN G
O TO VAL "50"
1010 FOR /1 TO Y: IF E$(A,1 TO L
EN F$)=F$ THEN GO TO 1030: NEXT
: CLS : GO SUB 70: PRINT AT 10,2
;"PROGRAM CAN NOT BE LOCATED""
: GO SUB 90: PAUSE 0: GO TO VAL
"50"
```

```
1020 NEXT : CLS : GO SUB 70: PRI
NT AT 10,2;"PROGRAM CAN NOT BE L
OCATED"" : GO SUB 90: PAUSE 0:
GO TO VAL "50"
```

```

1030 CLS : GO SUB 70: PRINT AT 1
0,0;E$(A, TO 10)""ON DISK: ";E$
(A,12 TO 31)"" TO LOAD INSERT
ABOVE NAMED DISK INTO APPROPRIATE
DRIVE""NOW PRESS ENTER TO LOA
D OR ""ANY OTHER KEY TO RETURN
TO MENU": PAUSE 0: IF CODE INKE
Y$=13 THEN GO TO VAL "2150"
1040 GO TO VAL "50"
2000 CLS : PRINT "1=PAGING * ENT
ER=LOAD *ZERO=EXITFILE-NAME TYP
E DISK-NAME""*****
*****": GO SUB 80: LET
F=Y: GO TO VAL "2070"
2010 LET G=3: LET H=1: FOR /I TO
J: PRINT AT G,0; INVERSE 1; OVE
R 1;B$: PAUSE 0: LET Q=CODE INKE
Y$: IF Q=13 THEN GO TO VAL "2150"

2020 IF Q=48 THEN GO TO VAL "50"
2030 IF Q=49 THEN LET A=J+1: LET
K=K+380: GO SUB 2160: GO SUB 20
50: GO TO 2130
2040 PRINT AT G,0; INVERSE 0;B$:
GO SUB 2110: NEXT
2050 PRINT AT 3,0;C$: IF A>F THE
N RANDOMIZE USR E: GO TO 2070
2060 RETURN
2070 GO SUB 70: LET I=2: LET J=1
2080 PAUSE 2: LET G=3: LET H=NOT
PI: IF F-I>=18 THEN LET J=J+19:
GO TO 2100
2090 LET J=F+1
2100 LET K=PEEK 23376+256*PEEK 2
3377: FOR /I TO J
2110 IF F THEN PRINT AT G,0;E$(A
-1, TO 10);TAB 11;K$(1+CODE E$(A
-1,11));TAB 17;E$(A-1,12 TO 26):
LET G=G+1: IF H THEN RETURN
2120 NEXT : GO SUB 2160: GO SUB
2010
2130 IF A-1<=F THEN LET I=A
2140 GO TO VAL "2080"
2150 INPUT "INSERT DISK & ENTER
DRIVE NO.>";K: LET /D=K-VAL "1":
LET L$=E$(A-1, TO 10): GO TO 21
50+CODE E$(A-1,11)+1
2151 LOAD /L$: STOP
2152 LOAD /L$ DATA A(): STOP
2153 LOAD /L$ DATA B(): STOP
2154 LOAD /L$CODE : STOP
2155 LOAD /L$ABS
2156 LOAD /L$VAL : STOP
2160 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
3000 CLS : GO SUB 70: GO SUB 100
: PRINT ""INSERT DISK TO BE AD
DED TO THE""LIBRARY INTO APPRO
PRIATE DRIVE""AND ENTER THE DR
IVE NUMBER BELOW""THIS PROGR
AM WILL CATALOG THE""DISK, PRE
SS ANY KEY WHEN THE""PROGRAM A
SKS YOU TO SCROLL": INPUT "DRIVE
#>";K: IF K=0 THEN GO TO VAL "
50"
3010 LET /D=K-1: CAT : LET F=USR
E: GO SUB 3030: CLS : GO SUB 70
: GO SUB 100: PRINT AT 8,0;"DISK
TO BE ADDED TO THE LIBRARY:"
"DISKNAME: ";A$(178)""FORMATED T
O ";CODE A$(179,1)"" TRKS, ";COD
E A$(179,2)"" SIDES""CAPACITY "
;CODE A$(179,3)*5; " K""REMAININ
G DISK SPACE: ";CODE A$(179,5)*5
; " K""PRESS ANY KEY TO ADD DI
SK TO THEDISK-LIBRARY": PAUSE 0:
IF INKEY$=""0" THEN GO TO VAL "5
0"

```

```

3020 FOR /Y TO Y+F-1: LET E$(A,
TO 11)=A$(A-Y+1, TO 11): LET E$(
A,12 TO 31)=A$(178): NEXT : LET
E$(801, TO 3)=STR$ A: GO TO VAL
"50"
3030 GO SUB 80: LET Y=Y+1: FOR /
1 TO Y: IF E$(A,12 TO 31)=A$(178
) THEN CLS : PRINT AT 10,0;"DISK
ALREADY PRESENT IN LIBRARY""
GO SUB 100: PAUSE 0: GO TO VAL "
50"
3040 NEXT : RETURN
4000 CLS : GO SUB 70: GO SUB 100
: LET B=0: INPUT "ENTER NAME OF
DISK TO BE DELETED""F$: IF F$
=""0" THEN GO TO VAL "50"
4010 PRINT AT 10,0;"DELETING DIS
K ";F$: GO SUB 80: FOR X=1 TO Y
4020 IF E$(X,12 TO 12+LEN F$-1)=
F$ THEN GO SUB 4050: LET A=A-1:
LET Y=Y-1: LET E$(801, TO 3)=STR
$(Y+1): GO TO VAL "4020"
4030 NEXT X: IF B THEN RETURN
4040 GO TO VAL "50"
4050 FOR /X TO Y: LET E$(A)=E$(A
+1): IF A=800 THEN : IF E$(A,12
TO 12+LEN F$)=F$ THEN LET E$(A)=
""
4060 NEXT : RETURN
5000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 8,0;"INSERT DISK INTO
DRIVE THEN ""ENTER DRIVE NUMB
ER BELOW": INPUT "DRIVE #>";K:
IF K=0 THEN GO TO VAL "50"
5010 LET D=K-1: INPUT "ENTER NAM
E OF DISK TO BE UPDATED""F$:
LET B=1: GO SUB 4010: CAT : LET
F=USR E: GO TO VAL "3020"
6000 CLS : GO SUB 100: GO SUB 70
: PRINT AT 10,10;"SORTING""THI
S MAY TAKE A WHILE (BASIC!!!)":
GO SUB 80: LET S=1
6010 LET S=S+2: IF S<=Y THEN GO
TO 6010
6020 LET S=INT (S/2): IF S=0 THE
N GO TO VAL "50"
6030 FOR /1 TO Y-S: LET K=A
6040 LET B=K+S: IF E$(K)<=E$(B)
THEN GO TO 6060
6050 LET F$=E$(K): LET E$(K)=E$(
B): LET E$(B)=F$: LET K=K-S: IF
K>0 THEN GO TO 6040
6060 IF INKEY$=""0" THEN GO TO VA
L "50"
6070 NEXT : GO TO 6020
7000 CLS : GO SUB 70: GO SUB 100
: INPUT " TO OR FROM WHICH DRIVE
ARE YOU""SAVING OR LOADING DA
TA ?";K: IF K=0 THEN GO TO VAL "
50"
7010 LET /D=K-1: INPUT "ENTER ""
L"" FOR LOADING""""S"" FO
R SAVING""F$: IF F$=""L" OR F$
=""L" THEN GO TO 7040
7020 CLS : PRINT AT 10,0;"NAME O
F DATA TO BE SAVED IS:"
"E$(801,4 TO 13): INPUT "DO YO
U WISH TO CHANGE THE NAME?""(Y
/N) ";F$: IF F$=""Y" OR F$=""y" TH
EN INPUT "ENTER NEW NAME ";F$: L
ET E$(801,4 TO 13)=F$
7030 SAVE /E$(801,4 TO 13) DATA
E$(): GO TO VAL "50"
7040 LET /D=K-1: PRINT AT 10,0;"
ENTER NAME OF DATA TO BE LOADED"
""OR TOKEN 'CAT' FOR CATALOG":
INPUT "NAME OR CAT ";F$: IF F$=""
CAT " THEN CAT : GO TO 7040
7050 LOAD /F$ DATA E$(): GO TO V
AL "50"

```

```

8000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 8,0;"ARE YOU LISTING
TO A CENTRONIC""TYPE PRINTER ?
? (Y/N)"; PAUSE 0: IF INKEY$="0"
THEN GO TO VAL "50"
8010 IF INKEY$="Y" OR INKEY$="Y"
THEN GO TO VAL "8030"
8020 CLS : GO SUB 80: FOR /1 TO
Y: LPRINT E$(A, TO 10);TAB 11;K$(
(1+CODE E$(A,11));TAB 17;E$(A,12
TO 26): NEXT : GO TO VAL "50"
8030 LET /P=0/G: REM PRINTER COD
ES HERE
8040 CLS : GO SUB 80: FOR /1 TO
Y: LPRINT TAB 2;E$(A, TO 10);TAB
14;K$(1+CODE E$(A,11));TAB 20;E
$(A,12 TO 31);
8050 IF A<Y THEN LPRINT TAB 42;E
$(A+1, TO 10);TAB 54;K$(1+CODE E
$(A+1,11));TAB 60;E$(A+1,12 TO 3
1): LET A=A+1: NEXT
8060 GO TO VAL "50"
9000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 6,0;"THIS FEATURE REQ
UIRES TWO DRIVES""DRIVES HAVE
TO BE IN LOGICAL ORDER (1 TO
2) OR (4 TO 1) ETC.""INSERT BL
ANK DISK INTO DRIVE IF YOU WISH
TO FORMAT A NEW DISK"
9010 PRINT ""ENTER DRIVE NUMBE
R FOR FORMAT ORPRESS ENTER TO SK
IP FORMATING": INPUT "DRIVE NUMB
ER (1 TO 4) OR <ENTER> ";F$: IF
F$="0" THEN GO TO VAL "50"
9020 IF F$="" THEN GO TO 9050
9030 CLS : LET K=VAL F$: PRINT A
T 8,2;"DISK WILL BE FORMATED NOW
""INSERT NEW DISK INTO DRIVE "
;K: LET /D=K-1: INPUT "ENTER NAM
E FOR NEW DISK""F$
9040 PRINT AT 10,0;"IF DISK IS I
N DRIVE "; FLASH 1;K: FLASH 0;"
THEN PRESENTER AND FORMATING WI
LL BEGIN": PAUSE 0: FORMAT /F$:
PAUSE 100
9050 CLS : GO SUB 70: INPUT "ENT
ER DRIVE NUMBER FOR SOURCE DI
SK (1 TO 4) ";K: GO SUB 70: INPU
T "ENTER DRIVE NUMBER FOR
DESTINATION DISK (1 TO 4) ";
S: LET S=S-1: LET /D=K-1
9100 CLS : PRINT "1=PAGING * ENT
ER=MOVE *ZERO=EXITFILE-NAME TYP
E DISK-NAME""*****
*****": GO SUB 80: LET
F=Y: GO TO VAL "9170"
9110 LET G=3: LET H=1: FOR /I TO
J: PRINT AT G,0; INVERSE 1; OVE
R 1;B$: PAUSE 0: LET Q=CODE INKE
Y$: IF Q=13 THEN GO SUB VAL "925
0"
9120 IF Q=48 THEN GO TO VAL "50"
9130 IF Q=49 THEN LET A=J+1: LET
K=K+360: GO SUB 9260: GO SUB 91
50: GO TO 9230
9140 PRINT AT G,0; INVERSE 0;B$:
GO SUB 9210: NEXT
9150 PRINT AT 3,0;C$: IF A>F THE
N RANDOMIZE USR E: GO TO 9170
9160 RETURN
9170 GO SUB 70: LET I=2: LET J=1
9180 PAUSE 2: LET G=3: LET H=NOT
PI: IF F-I>=17 THEN LET J=J+18:
GO TO 9200
9190 LET J=F+1
9200 LET K=PEEK 23376+256*PEEK 2
3377: FOR /I TO J
9210 PRINT AT G,0;E$(A-1, TO 10)
;TAB 11;K$(1+CODE E$(A-1,11));TA
B 17;E$(A-1,12 TO 26): LET G=G+1
: IF H THEN RETURN

```

```

9220 NEXT : GO SUB 9260: GO SUB
9110
9230 IF A-1<=F THEN LET I=A
9240 GO TO VAL "9180"
9250 INPUT "INSERT SOURCE DISK A
ND <ENTER>";L$: LET L$=E$(A-1, T
O 10): GO TO 9250+CODE E$(A-1,11
)+1
9251 MOVE /L$ TO S: RETURN
9252 MOVE /L$ DATA TO S: RETURN
9253 MOVE /L$ DATA $ TO S: RETUR
N
9254 MOVE /L$CODE TO S: RETURN
9255 MOVE /L$ABS TO S: RETURN
9256 MOVE /L$VAL TO S: RETURN
9260 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
9350 REM INITIALIZE PROGRAM WITH
"RUN 9400" THEN
DELETE LINE 9350 TO END

9400 RESTORE 9500: FOR X=23760 T
O 23760+63: READ B: POKE X,B: NE
XT X: POKE 23756,0
9500 DATA 205,10,0,42,75,92,17,1
4,0,25,235,33,32,38,1,212,13,237
,176,33,16,38,14,16,237,176,229,
235,17,4,0,25,235,33,0,38,14,16,
237,176,225,17,20,0,62,128,190,4
0,4,3,25,48,249,42,75,92,17,42,0
,25,34,80,91,223

```

Now what. Just following the prompts will keep you out of trouble I hope, but here a few hints to get you started.

Initialize the program after you have it all entered with "RUN 9400", this will put the machine code into the REM line and also change line 10 to line 0, this is the same machine code you'll find in the menu loader, but shorter, it's almost the same code as used in another famous menu loader, sorry, but there is only one way to do it. As they say in Wisconsin: "there is only one way to milk a cow, you have to...." But thats another story.

Make sure the DATA line is entered correctly, otherwise you may get a crash when you run the program. Be sure you save the program before you run it.

Option 3)

Will add a diskfile to the library.

Option 4)

Will delete all files with the same disk-name of your choice (in the library only of course).